# Sahrdaya College of Engineering and Technology, Kodakara

# Department of Computer Science and Engineering

B. Tech. Computer Science and Engineering

Semester 7 - CSB

# CSD 415: Project Phase I

# Project Abstract

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**Real-Time Sign Language Recognition System**

Communication is a fundamental requirement for societal survival. Differently abled people in our society face numerous difficulties in communicating with their surroundings and expressing their feelings on a daily basis. They are unable to communicate with the outside world and face numerous challenges in their daily lives.

A sign-language recognition system is a crucial step towards the enhancement of communication among the hearing and speech-impaired people. The main idea behind this project is to create a real-time sign language recognition deep learning model which can work on pre-trained image and video dataset and give us the output in real-time. Our system would take the input as an ASL alphabet and save it and then show the string in text or audio format according to the user’s choice. It involves accurate extraction of hand gestures using appropriate sensing devices in our model for the smooth communication between the normal and the hearing and impaired people.

# References

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